

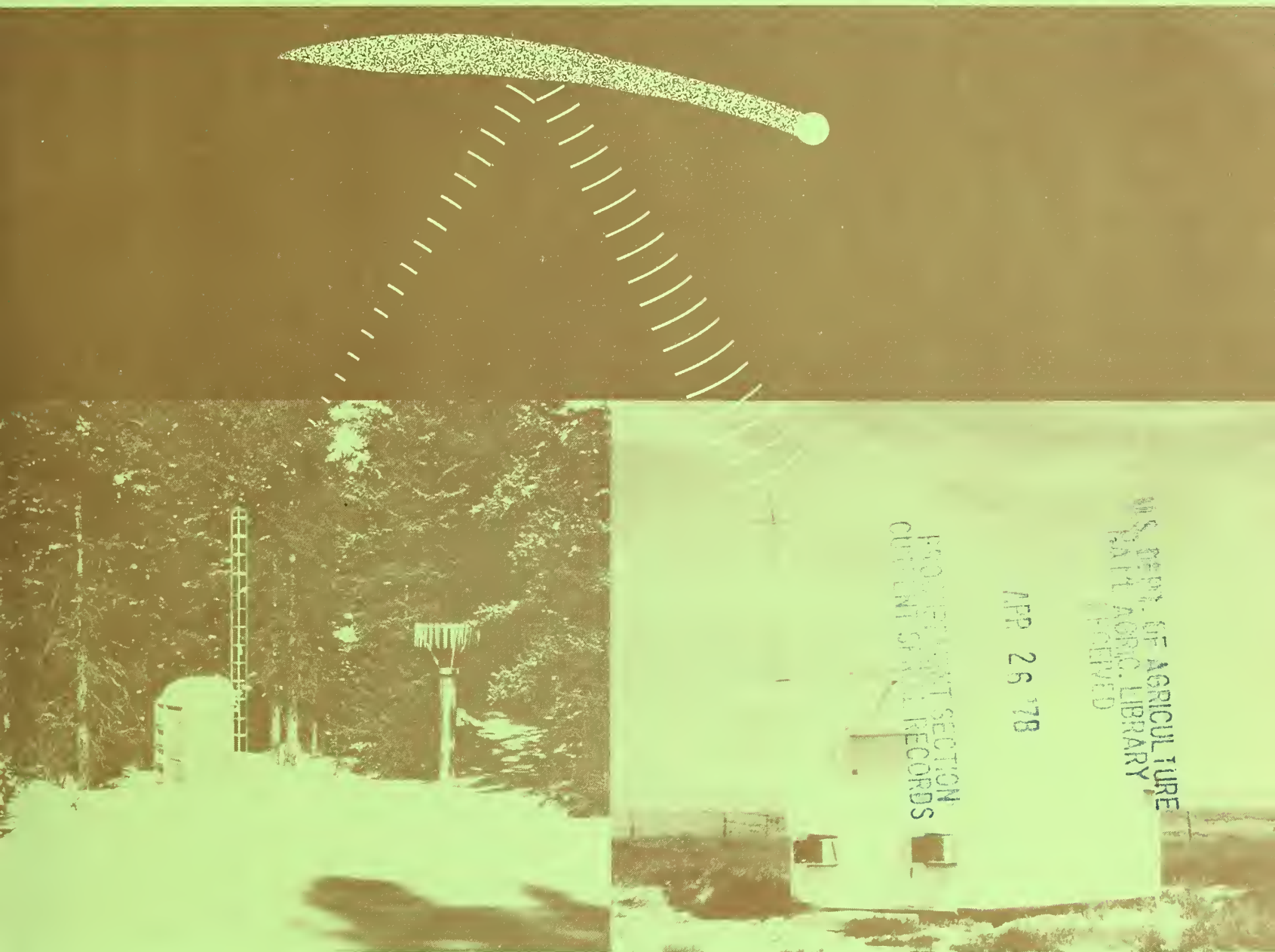
## **Historic, Archive Document**

Do not assume content reflects current scientific knowledge, policies, or practices.



A292.9  
So3Wat  
cop. 2

# WATER SUPPLY OUTLOOK FOR IDAHO



PROJECTS SECTION  
CURRENT STATUS RECORDS

APR 26 '78

U.S. DEPT. OF AGRICULTURE  
NATL. AGRIC. LIBRARY  
RECEIVED

U. S. DEPARTMENT of AGRICULTURE ★ SOIL CONSERVATION SERVICE

Collaborating with

IDAHO DEPARTMENT OF WATER RESOURCES

Data included in this report were obtained by the agencies named above in cooperation with Federal, State and private organizations listed inside the back cover of this report.

AS OF  
APR. 1, 1978

## TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

*COVER PHOTO: SOME OF THE DATA IN THIS REPORT HAVE BEEN RECEIVED THROUGH THE SOIL CONSERVATION SERVICE'S NEW SNOTEL SYSTEM WHICH TRANSMITS INFORMATION VIA THE SPACE AGED METEOR BURST METHOD FROM DATA SITES TO MASTER STATIONS LIKE THESE.*

### PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, West Technical Service Center, Room 510, 511 N.W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	Room 129, 2221 East Northern Lights Blvd., Anchorage, Alaska 99504
Arizona	Room 3008, Federal Building, Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P. O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno Nevada 89505
Oregon	1220 S.W. Third Ave., Portland, Oregon 97204
Utah	4012 Federal Bldg., 125 South State St., Salt Lake City, Utah 84138
Washington	360 U.S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82602

### PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P.O. Box 388, Sacramento, California 95802 --- for British Columbia by the Ministry of the Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia V8V 1X5 --- for Yukon Territory by the Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory Y1A 3V1 --- and for Alberta, Saskatchewan, and N.W.T. by the Water Survey of Canada, Inland Waters Branch, 110-12 Avenue S.W., Calgary, Alberta T3C 1A6.





# **WATER SUPPLY OUTLOOK for IDAHO**

and  
**FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS**

Issued by  
**R. M. DAVIS**  
ADMINISTRATOR  
SOIL CONSERVATION SERVICE  
WASHINGTON, D.C.

---

Released by  
**AMOS I. GARRISON, JR.**  
STATE CONSERVATIONIST  
SOIL CONSERVATION SERVICE  
BOISE, IDAHO

In Cooperation with  
**C. STEPHEN ALLRED**  
DIRECTOR  
IDAHO DEPARTMENT OF WATER RESOURCES

---

Report prepared by  
**JACK A. WILSON**, Snow Survey Supervisor  
**GERALD A. BEARD**, Asst. Snow Survey Supervisor  
**KATHERN G. WOOTTON**, Statistical Assistant

SOIL CONSERVATION SERVICE  
SNOW SURVEY SECTION  
ROOM 345, 304 N. 8th ST.  
BOISE, IDAHO 83702



# WATER SUPPLY OUTLOOK for IDAHO



## GENERAL SUMMARY FOR APRIL 1, 1978

Water supplies for irrigation for the 1978 season is forecast to be generally adequate throughout Idaho.

Seasonal streamflow forecasts vary from a low of 82 percent of average for Clearwater River at Spalding to 153 percent of normal for Montpelier Creek near Montpelier.

Water shortages may occur on some smaller low elevation streams, such as the Palouse, with no storage facilities and a well below normal snowpack.

Snowfall during March was below average throughout the State. Normally, maximum accumulation occurs near the first of April; however, in 1978 the maximum was near the first of March on many snow courses. Accumulated snow water content varies from a low of 23 percent of average on the Palouse drainage to 131 percent of normal on the Montpelier Creek watershed.

Valley precipitation averaged below normal for March while temperatures averaged well above normal. Rainfall varied from 42 percent of average at Porthill and 43 percent at Ketchum to 142 percent at Boise and all the way up to 212 percent at Twin Falls.

Temperatures average 5° F. above normal in northern and central Idaho to over 7° F. in the southern and southeastern portion of the State. The warm temperatures resulted in considerable low and middle elevation snow melt and increased the soil moisture situation considerably.

Runoff during March was near median with reservoir storage increasing only moderately. Though storage is below average, all major reservoirs are expected to fill by the beginning of the irrigation season if a normal spring develops.



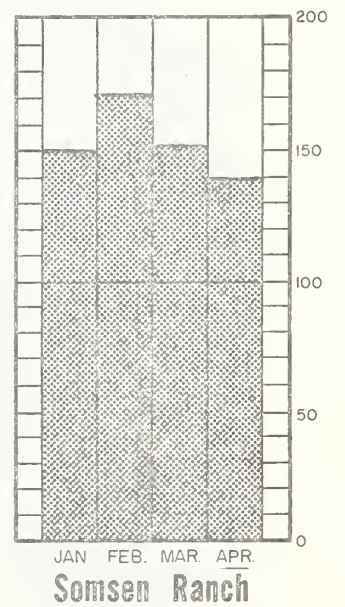
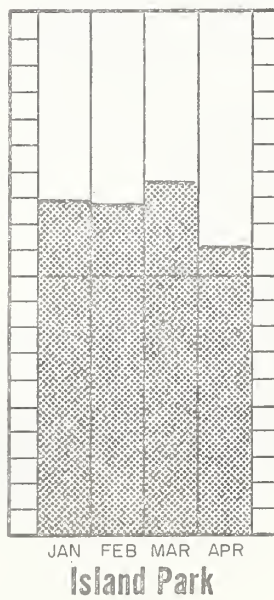
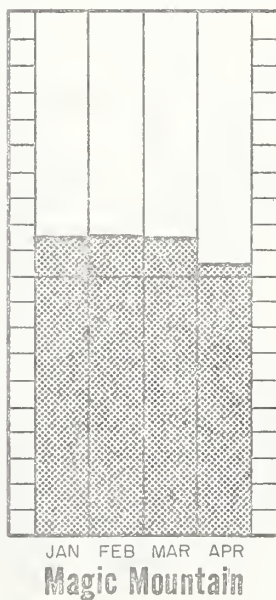
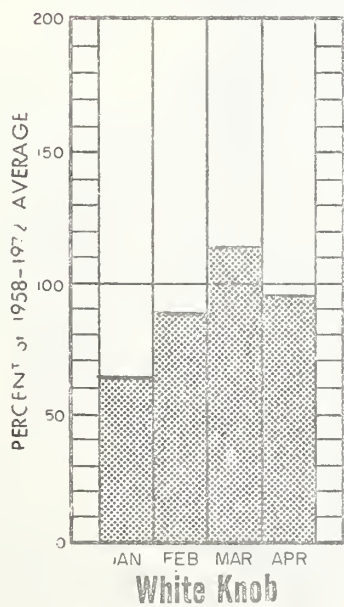
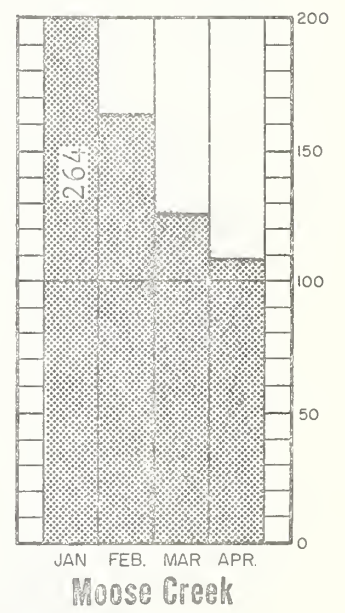
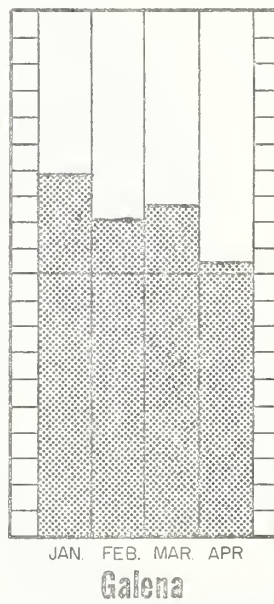
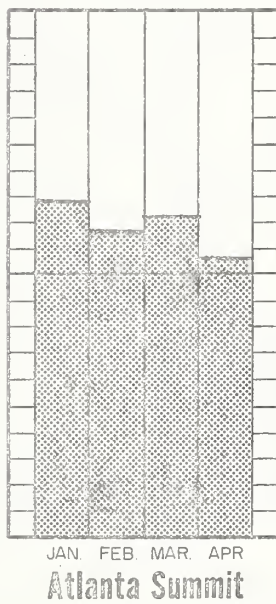
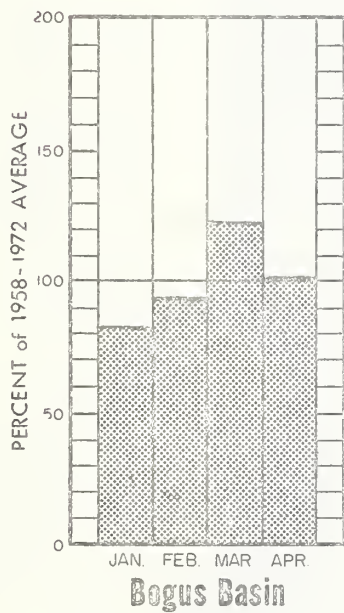
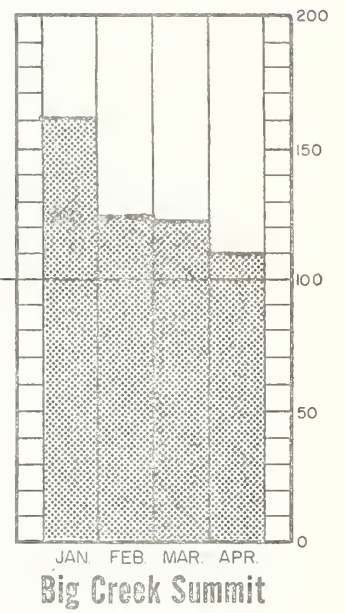
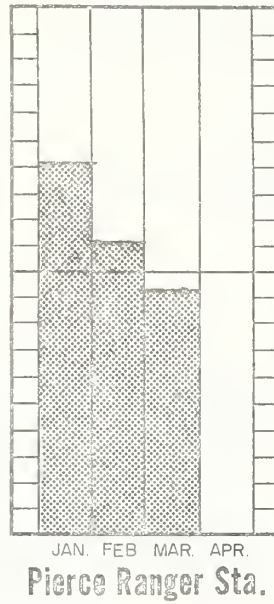
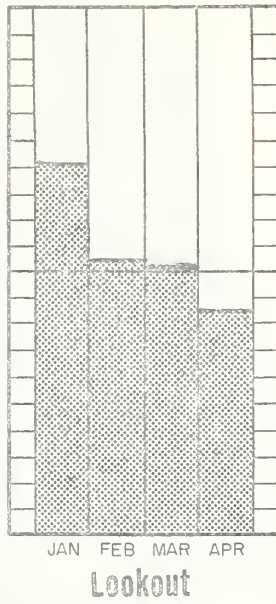
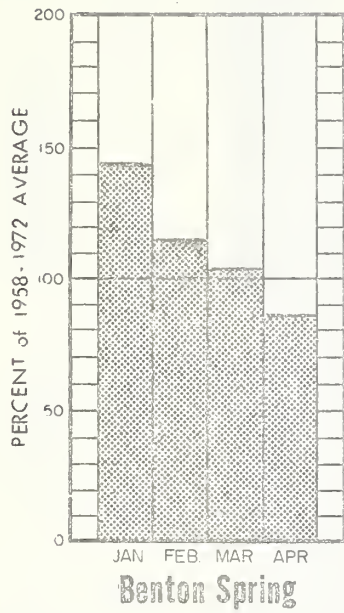
# SNOW WATER DEPTHS ACCUMULATION

## For Selected Snow Courses

As Compared To 1958-1972 15 Yr. Average

3

APRIL 1, 1978



## COMPARISON of SNOW COVER

RIVER BASIN WATERSHED	NO.OF COURSES AVERAGED	THIS YEARS SNOW WATER EXPRESSED AS PERCENT OF :	
		LAST YEAR	1958-72 AVERAGE
<u>UPPER COLUMBIA RIVER BASIN</u>			
Kootenai River	43	144	77
Pend Oreille River	94	158	92
Clark Fork River	36	155	91
Flathead River	31	143	92
Priest River	4	190	87
Spokane River	15	159	72
<u>LOWER SNAKE RIVER BASIN</u>			
Palouse River	5	75	23
Clearwater River	20	167	81
Salmon River	22	282	97
Lemhi River	6	175	81
<u>MIDDLE SNAKE RIVER BASIN - Northside</u>			
Little Lost River	5	388	75
Big Lost River	7	470	91
Fish Creek	2	607	101
Little Wood River	4	700	96
Big Wood River	10	534	109
Canyon Creek	1	365	142
Boise River	15	403	109
Payette River	15	307	102
Weiser River	5	273	77
Mann Creek	4	300	
<u>MIDDLE SNAKE RIVER BASIN - Southside</u>			
Raft River	7-8	201	99
Goose-Trapper Creeks	3	233	103
Salmon Falls Creek	9	204	100
Bruneau River	5	193	102
Owyhee River	5	231	93
Jordan Creek	3	209	90
<u>UPPER SNAKE RIVER BASIN</u>			
Snake Basin - Wyoming	30	291	124
Camas-Beaver Creeks	3	372	104
Henrys Fork River	6-7	266	107
Teton River	2-11	231	107
Willow Creek	5-9	291	88
Blackfoot River	3	263	110
Portneuf River	4	244	98
<u>GREAT BASIN</u>			
Bear River - Upper	10	261	121
Bear River - Lower	21	248	112
Montpelier Creek	4-6	327	131
Mink Creek	7	264	118
Cub River	3-4	216	106
Malad River	4-6	334	115






# SNOW WATER DEPTHS

As percent of 1958-'72 15 year average

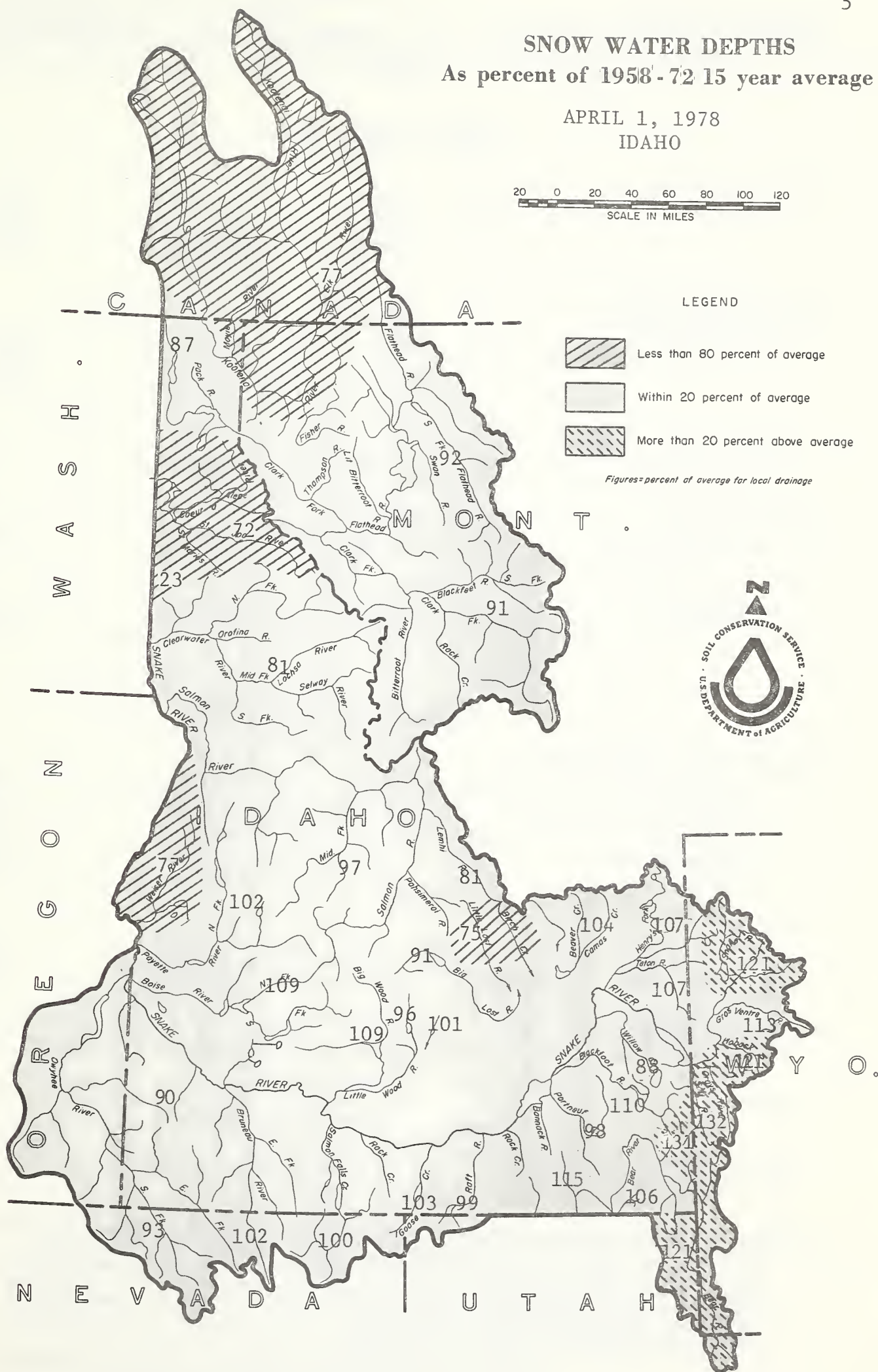
APRIL 1, 1978  
IDAHO

20 0 20 40 60 80 100 120  
SCALE IN MILES

## LEGEND

-  Less than 80 percent of average
-  Within 20 percent of average
-  More than 20 percent above average

Figures=percent of average for local drainage



## STREAMFLOW FORECASTS

STREAMFLOW FORECASTS		THIS YEAR		PAST RECORD	
BASIN, STREAM and/or FORECAST POINT	FORECAST <sup>c</sup>		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average <sup>†</sup>

## UPPER COLUMBIA BASIN

## KOOTENAI RIVER

Leonía	(at)	7600	84	Apr-Sep	9073
		6680	84	Apr-Jul	7957
		5400	84	Apr-Jun	6431

## PEND OREILLE RIVER

## Clark Fork River

Whitehorse Rapids	(at)	12900	92	Apr-Sep	14336
		11800	92	Apr-Jul	13086
		10200	92	Apr-Jun	11325

## Priest River

Priest River, <u>1</u> /*	(at)	790	90	Apr-Jul	879
---------------------------	------	-----	----	---------	-----

## SPOKANE RIVER

Post Falls <u>2</u> /	(at)	2750	91	Apr-Sep	3008
-----------------------	------	------	----	---------	------

## St. Joe River

Calder	(at)	1225	91	Apr-Sep	1345
		1170	92	Apr-Jul	1277

## SNAKE RIVER BASIN

## SNAKE RIVER - MAIN STEM

Moran <u>3</u> /	(at)	1080	126	Apr-Sep	858
Palisades Inflow <u>3</u> /		4775	130	Apr-Sep	3714
Heise <u>4</u> /	(nr)	4970	126	Apr-Sep	3946
Blackfoot <u>5</u> /	(nr)	5000	120	Apr-Jul	4173
Weiser*	(at)	6610	101	Apr-Sep	6524

## Henrys Fork

Ashton <u>6</u> /	(nr)	740	110	Apr-Sep	671
Rexburg <u>7</u> /	(nr)	1500	110	Apr-Sep	1364

## Teton River

St. Anthony	(nr)	485	110	Apr-Sep	442
-------------	------	-----	-----	---------	-----

## Portneuf River

Topaz	(at)	110	118	Mar-Sep	93
-------	------	-----	-----	---------	----

## Oakley Reservoir Inflow

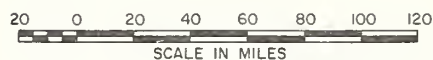
30.5	103	Mar-Sep	29.5
------	-----	---------	------

(c) Assuming normal meteorological conditions. 1/ Observed flow corrected for storage in Priest Lake.  
2/ Observed flow corrected for storage in Coeur d'Alene Lake 3/ Corrected for storage in Jackson Lake.  
4/ Corrected for storage in Jackson Lake and Palisades. 5/ Corrected for storage in Jackson Lake, Palisades,  
Island Park, Henry's Lake, Grassy Lake and diversions between Heise and Blackfoot. 6/ Corrected for storage  
in Henry's Lake and Island Park Reservoir. 7/ Corrected for storage in Henry's Lake, Island Park, Grassy Lake  
and diversions between Ashton and Rexburg.  
\*National Weather Service forecast.

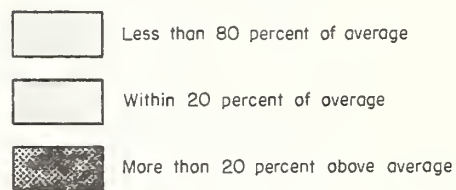
<sup>†</sup> 1958-1972 period.



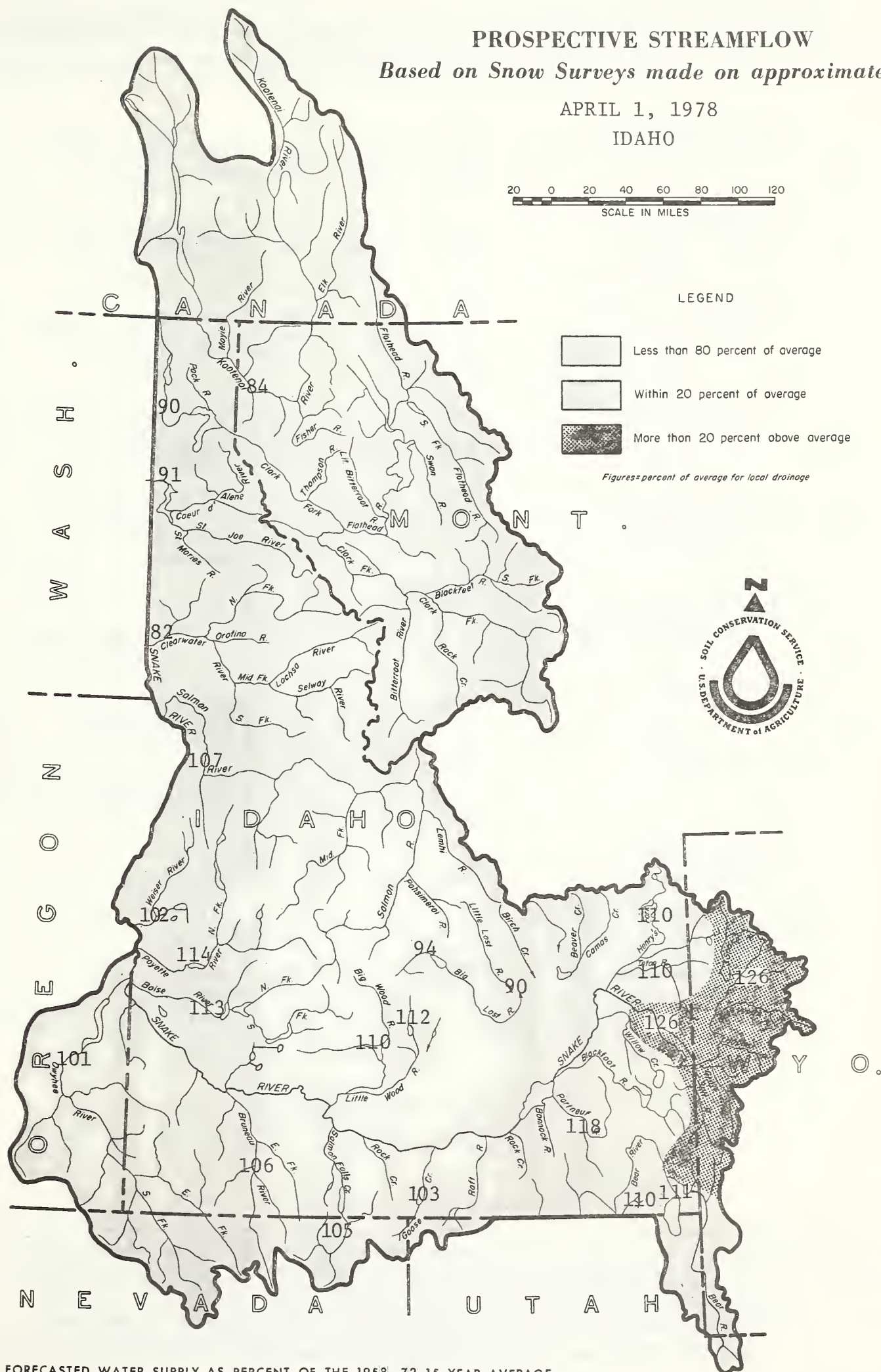
IDAHO



### LEGEND



Figures=percent of average for local drainoge



## STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT		THIS YEAR			PAST RECORD	
		FORECAST <sup>c</sup>		FORECAST PERIOD	THOUSAND ACRE FEET	
		Thousand Acre Feet	Percent of Average		Last Year	Average <sup>†</sup>
<u>Salmon Falls Creek</u>						
San Jacinto	(nr)	88	105	Mar-Sep		84
		84	105	Mar-Jul		80
<u>Bruneau River</u>						
Hot Springs	(nr)	240	106	Mar-Sep		226
<u>Little Lost River</u>						
Howe	(nr)	37	90	Apr-Sep		41
Wet Creek	(bl)	35	94	Apr-Sep		37
<u>Big Lost River</u>						
Howell Ranch	(at)	195	94	Apr-Sep		208
		140	96	Apr-Jun		146
Mackay <u>1/</u>	(nr)	165	90	Apr-Sep		183
<u>Big Wood River</u>						
Magic Reservoir		330	110	Apr-Sep		301
Inflow <u>2/</u>		345	111	Mar-Jul		310
<u>Little Wood River</u>						
High Five Creek	(ab)	105	112	Apr-Sep		94
<u>Boise River</u>						
Twin Springs	(nr)	815	113	Apr-Sep		720
		760	114	Apr-Jul		665
Boise <u>3/</u> *	(nr)	1825	113	Apr-Sep		1612
		1525	114	Apr-Jun		1340
		1675	113	Apr-Jul		1483
<u>South Fork</u>						
Anderson Dam <u>4/</u>	(at)	680	113	Apr-Sep		603
<u>Owyhee River</u>						
Gold Cr., Nev. <u>5/</u>	(nr)	20	111	Apr-Jul		18
Owyhee, Nev. <u>5/</u>	(nr)	62	91	Apr-Jul		68
Lake Owyhee		336	101	Apr-Sep		332
net inflow <u>6/</u>		311	101	Apr-Jul		309

(c) Assuming normal meteorological conditions. 1/ Observed flow corrected for storage in Mackay Reservoir  
2/ Combined flow Big Wood River nr. Bellevue and Camas Creek nr. Blaine. 3/ Corrected for storage in Arrow-  
 rock, Anderson Ranch and Lucky Peak. 4/ Corrected for storage in Anderson Ranch Reservoir. 5/ Corrected for  
 storage in Wild Horse Reservoir. 6/ From U.S.B.R. records of inflow.

<sup>†</sup> 1958-1972 period.

\*Coordinated forecast by Soil Conservation Service, National  
 Weather Service, Corps of Engineers and U.S. Bureau of Reclamation.

## STREAMFLOW FORECASTS

STREAMFLOW FORECASTS		THIS YEAR				PAST RECORD	
		FORECAST ^		FORECAST PERIOD	THOUSAND ACRE FEET		
		Thousand Acre Feet	Percent of Average		Last Year	Average †	
BASIN, STREAM and/or FORECAST POINT							
<u>Payette River</u>							
Horseshoe Bend	<u>1/</u>	(nr)	2100	114	Apr-Sep		1850
Banks	<u>2/</u>	(nr)	1135	114	Apr-Jul		993
<u>North Fork</u>							
Cascade	<u>3/</u>	(at)	640	114	Apr-Sep		562
Banks	<u>3/</u>	(nr)	830	114	Apr-Sep		730
<u>Weiser River</u>							
Weiser ab. Crane Creek	<u>4/</u>		530	102	Mar-Sep		511
<u>Salmon River</u>							
Whitebird*		(at)	7470	107	Apr-Sep		6959
<u>Clearwater River</u>							
Spalding*		(at)	7050	82	Apr-Sep		8605

GREAT BASINBEAR RIVER

Harer	(at)	330	111	Apr-Sep		297
<u>Montpelier Creek</u>						
Montpelier	(nr)	19	153	Apr-Sep		12.4
<u>Cub River</u>						
Preston	(nr)	55	110	Apr-Sep		50

(c) Assuming normal meteorological conditions. 1/ Corrected for storage in Cascade and Deadwood Reservoirs. 2/ Corrected for storage in Headwood Reservoir. 3/ Corrected for storage in Cascade Reservoir. 4/ Observed flow of Weiser River nr. Weiser minus observed flow of Crane Creek at mouth. † 1958-1972 period.

\*National Weather Service forecast.



## RESERVOIR STORAGE (1,000 Ac. Ft.)

RESERVOIR	USABLE CAPACITY	MEASURED (First of Month)		
		THIS YEAR	LAST YEAR	1958-72 AVERAGE
UPPER COLUMBIA BASIN				
Clark Fork - Pend Oreille				
Hungry Horse	3428.0	1605.0	2186.0	2157.0
Flathead	1791.0	695.5	611.4	794.5
Pend Oreille	1155.1	259.4	646.3	477.1
Noxon	334.6	255.0	114.3	198.5
Spokane				
Coeur d'Alene	225.1	277.8	43.7	174.0
SNAKE BASIN				
Snake				
Jackson Lake	847.0	325.8	615.3	517.0
Palisades	1200.0	285.8	1165.8	794.4
American Falls	1700.0	1381.1	1122.9	998.2
Island Park	127.0	104.9	132.5	123.7
Grassy Lake	15.2	9.3	10.8	10.5
Brownlee	980.2	402.0	719.4	324.4*
Goose-Trapper Creeks				
Oakley	74.4	36.0	47.4	22.9
Salmon Falls Creek				
Salmon Falls	182.6	47.7	83.2	42.6
Big Lost				
Mackay	44.2	31.4	29.8	32.1
Big Wood				
Magic	191.5	51.0	80.0	115.1
Little Wood				
Little Wood	30.0	13.6	14.5	16.7
Fish Creek				
Carey Valley	13.0	6.6	6.2	--
Boise				
Anderson Ranch	423.2	111.2	330.9	229.9
Arrowrock	286.6	277.9	84.4	231.5
Lucky Peak	278.2	92.6	240.1	119.2
Lake Lowell (Deer Flat)	169.0	147.5	120.1	143.3
Owyhee				
Owyhee	715.0	549.9	523.1	509.2
Payette				
Cascade	653.2	316.2	363.9	304.9
Deadwood	161.9	59.5	89.2	84.6
Weiser				
Mann Creek	11.1	9.8	3.6	--
Clearwater				
Dworshak	2016.0	407.0	714.0	--
GREAT BASIN				
Bear				
Bear Lake	1421.0	801.6	1058.3	974.9
*Period of Record				

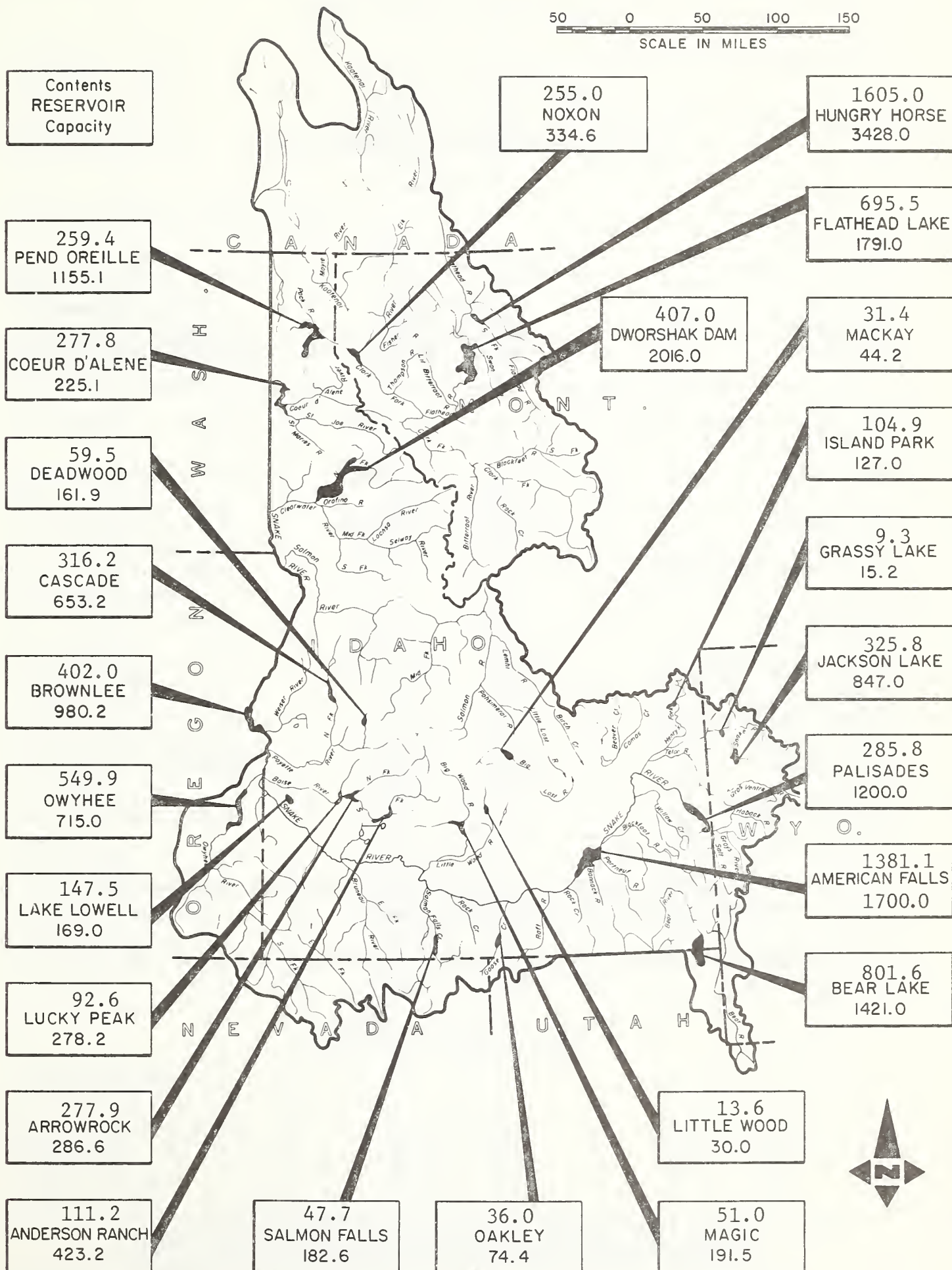


# 11 RESERVOIR STORAGE

USABLE CONTENTS (1,000 Acre Feet)

APRIL 1, 1978

50 0 50 100 150  
SCALE IN MILES



VALLEY PRECIPITATION 1/  
 Division Averages and Departures  
 In Inches

DRAINAGE DIVISIONS	Winter March 1978		Fall - Winter Nov. 77 - Mar. 78	
	Observed	Departure <u>2/</u>	Observed	Departure <u>2/</u>
Kootenai, Canada & U.S.	1.69	-0.05	13.82	0.43
Flathead	0.91	-0.62	11.12	0.39
Clark Fork	0.74	-0.48	8.85	0.85
Pend Oreille-Spokane	1.27	-1.26	17.28	-0.27
Upper Snake	1.06	-0.46	13.89	3.78
Snake River Plain	0.97	0.19	6.11	1.03
Salmon-Payette-Boise	1.13	-0.60	14.27	2.48
Clearwater	2.25	-0.71	21.01	3.13
Owyhee-Malheur	1.07	0.22	7.81	2.14

1/ Preliminary analysis and data by the National Weather Service and Meteorological Service of Canada.

2/ Departure from 15-year (1958-72) drainage division average.

## SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average <sup>6</sup>

UPPER COLUMBIA RIVER BASINKCOTENAI RIVER

#Bear Mountain	5400	3/29	108	47.1	30.5	65.7*
Halverson Creek	4850	3/29	91	40.8	26.5	50.7*
Smith Creek	4800	3/31	89	37.6	25.1	49.1

PEND OREILLE - PRIEST RIVER

Bear Mountain	5400	3/29	108	47.1	30.5	65.7*
Benton Meadow	2370	3/28	4	1.5	0.0	3.4
Benton Spring	4900	3/28	39	16.7	7.8	19.4
#Mosquito Ridge	5110	3/27	78	33.2	19.6	40.3
Schweitzer Bowl	4500	3/30	51	23.1	17.8	31.7*
Schweitzer Ridge	6100	3/30	102	48.2	21.4	48.3*

HAYDEN LAKE

Chilco Ridge	3650	3/31	0	0.0	2.6	--
Conie Ridge	3900	3/31	1	0.4	3.8	--
Corner Creek	3150	3/31	7	2.4	5.2	--
Sage Creek Saddle	4100	3/31	29	12.0	10.2	--

SPOKANE RIVER

Above Burke	4100	3/29	47	18.5	15.3	25.6*
Above Roland	4350	3/27	70	26.8	15.0	35.8*
Below Roland	3770	3/27	25	11.6	5.1	17.4*
Copper Ridge	4800	3/30	35	16.0	14.6	30.1
#Forty-nine Meadows	4880	3/31	54	19.8	13.6	34.9
Fourth of July Summit	3200	3/30	0	0.0	6.0	7.8
Granite Peak	6000	3/31	94	34.4	19.8	47.5*
Kellogg Peak	5560	3/27	58	24.8	15.2	34.7*
Lookout	5120	3/30	74	32.2	18.6	38.1
#Lost Lake	6000	3/31	113	44.3	25.2	62.1
Lower Sands Creek	3400	3/30	38	16.2	12.1	20.7
Mosquito Ridge	5110	3/27	78	33.2	19.6	40.3
Roland Summit	5200	3/27	82	36.6	16.0	39.2*
Sherwin	3200	3/27	18	6.6	6.9	13.8*
Sunset	5600	3/27	74	30.5	18.0	39.3*

LOWER SNAKE RIVER BASINPALOUSE RIVER

Crumarine Creek	3340	3/28	0	0.0	0.0	4.1*
East Twin	4050	3/28	0	0.0	3.2	9.6
Howard Creek	3500	3/27	0	0.0	0.0	1.4

(b) 1958-72, 15 year period. #Not located directly on this drainage. \* Estimated 1958-72, 15 year Average. (A) Aerial observation W Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.



## SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average <sup>b</sup>

Moscow Mountain	4400	3/28	27	9.7	7.2	17.7
West Twin	4250	3/27	0	0.0	2.6	8.7

## CLEARWATER RIVER

Breezy Saddle	5000	3/31	57	21.7	15.5	--
Buck Meadows	5650	3/29	69	25.9	15.7	29.7*
Cayuse Airstrip	3700	3/29	6	2.0	5.3	9.6
Coolwater Mountain	6200	3/29	93	33.3	19.6	32.9*
Crater Meadows	6100	3/27	94	38.4	25.5	48.7*
Crooked Fork	3600	3/30	26	10.0	9.0	14.3*
Elk Butte	5550	3/30	65	23.0	19.2	39.6*
Fish Lake Airstrip	5000	3/29	86	34.2	18.9	42.4
Forty-nine Meadows	4880	3/31	54	19.8	13.6	34.9
Goat Lake	6600	3/29	116	44.7	23.1	52.1*
#Granite Peak	6000	3/31	94	34.4	19.8	47.5*
Hemlock Butte	5500	3/31	100	37.8	26.8	52.9*
#Hoodoo Basin	Mont. 6000	3/31	108	47.7	23.0	53.8
#Hoodoo Creek	Mont. 5900	3/31	100	43.5	22.4	50.3
Lolo Pass	5240	3/30	62	28.4	15.4	32.8
Lost Lake	6000	3/31	113	44.3	25.2	62.1*
Mountain Meadows	6300	3/29	54	20.8	14.9	26.1*
#Nez Perce Pass	Mont. 6575	3/28	44	19.2	12.5	17.3
Orogrande Mountain	7800	3/29	98	33.6	20.5	40.6*
Pierce Ranger Station	3170	3/30	9	3.0	7.1	9.4
Savage Pass	6170	3/31	61	26.8	15.4	28.3
Shanghai Summit	4600	3/31	47	17.9	14.3	28.2*

## SALMON RIVER

Big Creek Summit	6600	3/29	93	41.2	10.9	37.4
Borah (A)	8250	3/28	16	5.1	1.7	--
#Boulder Creek	5500	3/31	38	15.7	8.8	24.8
Brundage Mountain	7560	3/29	116	51.5	15.8	49.1*
#Deadwood Summit	7000	3/31	102	48.3	11.6	47.0
Double Springs Pass (A)	8400	3/28	27	10.4	1.9	--
#Galena Summit	8795	3/28	59	23.3	5.8	25.0
#Gibbons Pass	Mont. 7100	4/3	56	25.9	9.5	23.7
Leatherman Pass	9800	3/28	58	21.6	9.5	--
#Lemhi Pass	Mont. 7480	3/26	32	11.0	5.6	9.2
#Lemhi Ridge	Mont. 8100	3/26	37	12.9	6.1	10.4
Mill Creek Summit	8870	3/28	53	20.4	6.7	23.6
Moose Creek	6200	3/31	46	18.4	7.7	16.9
Morgan Creek	7580	3/28	34	14.2	5.7	14.1*
Morse Creek Sawmill	7120	3/28	27	10.2	4.0	--
Redfish Lake Flat	6570	3/29	31	12.7	3.9	--
#Rock Flat Summit	5200	3/29	51	19.3	6.9	18.6
#Secesh Summit	6520	3/30	73	35.2	11.6	37.6*

(b) 1958-72, 15 year period. #Not located directly on this drainage. \* Estimated 1958-72, 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.



## SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average <sup>b</sup>

#Squaw Meadow	5800	3/30	73	35.5	11.3	37.6
Twin Peaks (A)	10300	3/28	51	19.6	9.7	--
Vienna Mine	8960	3/31	86	39.5	10.4	38.7
Williams Creek Summit	7800	3/27	42	14.4	4.8	13.4

Lemhi River

Above Gilmore	8200	3/28	26	8.1	4.4	10.5*
Aspen-Hall Pass (A)	8110	3/28	28	8.9	5.2	9.6*
Copes Camp	7500	3/28	27	7.5	4.4	8.4*
Hall Creek	7560	3/28	10	2.9	3.4	5.4*
Meadow Lake	9100	3/28	45	16.5	8.0	20.5*
Schwartz Lake	8500	3/28	38	11.3	6.1	13.4*

(b) 1958-72, 15 year period. #Not located directly on this drainage. \* Estimated 1958-72, 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.

## SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average <sup>6</sup>

MIDDLE SNAKE RIVER BASIN - NORTHSIDELITTLE LOST RIVER

Fairview Guard Station	6750	3/30	0	0.0	0.0	3.1
Lost Garfield	6600	3/30	0	0.0	0.0	2.6
Moonshine	7450	3/30	31	11.5	2.6	11.2
Sawmill Canyon	6900	3/30	18	6.8	2.2	7.9
Wet Creek Summit	7600	3/31	28	10.0	2.5	13.1

BIG LOST RIVER

Bear Canyon	7920	3/29	46	15.8	3.7	19.4
Copper Basin	7650	3/29	29	11.4	0.0	10.5
Fishpole Lake	9350	3/29	65	25.4	--	--
Iron Bog	7650	3/28	30	12.2	1.9	14.6*
Leadbelt	6800	3/29	24	9.3	1.6	9.4*
#Leatherman Pass	9800	3/28	58	21.6	9.5	--
Lost-Wood Divide	7900	3/29	57	22.6	6.0	23.7
Stickney Mill	7500	3/29	24	8.0	2.2	10.3
White Knob	7700	3/31	27	9.6	3.5	10.0*

FISH CREEK

Iron Mine Creek	6370	3/29	27	10.2	2.8	10.2
Telfer Ranch	6000	3/29	16	6.8	0.0	6.6

LITTLE WOOD RIVER

#Bear Canyon	7920	3/29	46	15.8	3.7	19.4
Garfield Ranger Station	6554	3/30	26	11.7	0.0	10.3
Muldoon	6300	3/30	13	6.4	0.0	7.1
Swede Peak	7650	3/30	47	18.6	3.8	17.8

BIG WOOD RIVER

Camas Creeks Divide	5720	3/29	10	5.6	0.0	--
#Couch Summit	6950	3/27	52	22.0	3.3	19.0
Dollarhide Summit	8620	3/29	78	32.0	4.4	24.6*
Galena	7300	3/28	47	20.7	3.4	19.8
Galena Summit	8795	3/28	59	23.3	5.8	25.0
Graham Ranch	6200	3/28	32	13.2	1.8	13.6
#Lost-Wood Divide	7900	3/29	57	22.6	6.0	23.7
Mascot Mine	7900	3/28	42	16.4	2.9	13.9
Mount Baldy	9000	3/31	62	24.3	4.6	21.2
Soldier Ranger Station	6100	3/27	33	13.6	0.0	9.6
#Vienna Mine	8960	3/31	86	39.5	10.4	38.7

(b) 1958-72, 15 year period. #Not located directly on this drainage. \* Estimated 1958-72, 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.

## SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average <sup>b</sup>

CANYON CREEK

Bennett Mountain	6650	3/29	40	24.8	6.8	17.5*
#Camas Creeks Divide	5720	3/29	10	5.6	0.0	--
Little Camas Flat	4950	3/29	6	3.0	0.0	--

BOISE RIVER

Atlanta Summit	7500	3/31	89	38.2	7.4	36.0
Bad Bear	5500	3/31	30	12.4	4.1	13.2*
#Bennett Mountain	6650	3/29	40	24.8	6.8	17.5*
#Bogus Basin	6120	3/29	59	24.5	11.2	24.2
Bogus Basin Road	5360	3/29	0	0.0	0.0	1.4
#Camas Creeks Divide	5720	3/29	10	5.6	0.0	--
Couch Summit	6950	3/27	52	22.0	3.3	19.0
Deadman Gulch	5600	3/27	40	16.2	7.4	15.4*
#Dollarhide Summit	8620	3/29	78	32.0	4.4	24.6*
Graham Guard Station	5690	3/31	39	18.1	4.1	--
Jackson Peak	7000	3/31	77	34.8	9.2	32.4
#Little Camas Flat	4950	3/29	6	3.0	0.0	--
Moore's Creek Summit	6100	3/31	82	34.2	10.0	33.3
Prairie	4900	3/30	0	0.0	0.0	2.8
Road Creek	5550	3/31	18	7.8	2.1	8.1
#Soldier Ranger Station	6100	3/27	33	13.6	0.0	9.6
Trinity Mountain	7780	3/31	97	46.7	9.8	42.9
#Vienna Mine	8960	3/31	86	39.5	10.4	38.7

PAYETTE RIVER

#Big Creek Summit	6600	3/29	93	41.2	10.9	37.4
Bogus Basin	6120	3/29	59	24.5	11.2	24.2
#Brundage Mountain	7560	3/29	116	51.5	15.8	49.1*
Cozy Cove	5400	3/31	32	13.6	5.2	16.2
Crawford Ranger Station	4800	3/29	14	6.2	0.0	6.3
#Deadman Gulch	5600	3/27	40	16.2	7.4	15.4*
Deadwood Airstrip	5440	3/31	31	13.8	5.4	15.3
Deadwood Summit	7000	3/31	102	48.3	11.6	47.0
High Valley Summit	5170	3/27	36	14.2	6.1	11.8*
#Jackson Peak	7000	3/31	77	34.8	9.2	32.4
Lake Fork	6000	3/31	41	16.8	6.0	16.1
Rock Flat Summit	5200	3/29	51	19.3	6.9	18.6
Secesh Summit	6520	3/30	73	35.2	11.6	37.6*
Squaw Meadow	5800	3/30	73	35.5	11.3	37.6
Tripod Summit	5200	3/27	42	18.2	8.3	18.3*

WEISER RIVER

Boulder Creek	5500	3/31	38	15.7	8.8	24.8
Placer Creek	6000	3/31	44	17.2	6.7	18.2

(b) 1958-72, 15 year period. #Not located directly on this drainage. \* Estimated 1958-72, 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.

**SNOW**

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average <sup>b</sup>

MANN CREEK

Mann Creek	6080	4/1	57	26.8	10.6	--
Robinson Creek Ridge	6220	4/1	46	21.8	5.0	--
Sturgill Ridge	6800	4/1	62	29.2	10.7	--
Thorson Cabin	5320	4/1	32	15.2	4.7	--

MIDDLE SNAKE RIVER BASIN - SOUTHSIDERAFT RIVER

Boy Scout Camp	7760	3/28	38	16.3	10.9	15.0
Clear Creek Meadows	Utah 9050	3/28	68	26.2	9.5	21.6*
George Peak	Utah 9000	3/28	77	31.0	9.8	--
Howell Canyon	8000	3/28	60	27.1	11.1	25.7
One Mile Summit	Utah 7330	3/28	16	6.1	4.0	8.0*
Sheep Hollow	6200	3/28	6	2.8	7.5	4.8*
Sublett	6000	3/28	19	7.8	4.5	10.3
Summit Springs	6400	3/28	16	7.0	4.4	9.2

GOOSE CREEK

Badger Gulch	6660	3/28	31	12.7	5.4	12.0
Bostetter Ranger Station	7500	3/28	46	18.4	8.3	19.5
Vi Pont	Utah 7670	3/28	42	16.0	6.5	14.4*

SALMON FALLS CREEK

#Bear Creek	Nev. 7800	3/30	54	23.4	11.7	20.8
Cedar Creek	7000	3/30	20	7.7	3.6	9.3
Deadline	6900	3/30	45	20.1	8.6	22.9
#Fox Creek	Nev. 6800	3/30	22	8.7	6.6	10.0*
Goat Creek	Nev. 8800	3/30	49	19.6	8.6	18.8
#Hummingbird Springs	Nev. 8945	3/30	66	25.9	10.4	23.7
Magic Mountain	6700	3/30	46	19.4	8.6	18.7
#Pole Creek R. S.	Nev. 8330	3/30	50	19.6	12.6	20.6
Shoshone Basin	5740	3/30	0	0.0	0.0	3.7*
Wilson Creek	7500	3/30	30	12.7	6.2	12.1*

BRUNEAU RIVER

Bear Creek	Nev. 7800	3/30	54	23.4	11.7	20.8
Fox Creek	Nev. 6800	3/30	22	8.7	6.6	10.0*
Hummingbird Springs	Nev. 8945	3/30	66	25.9	10.4	23.7
Pole Creek R. S.	Nev. 8330	3/30	50	19.6	12.6	20.6
#Seventy-six Creek	Nev. 7100	3/30	27	11.2	4.8	11.6*

(b) 1958-72, 15 year period. #Not located directly on this drainage. \* Estimated 1958-72, 15 year Average. (A) Aerial observation #Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.



## SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average <sup>b</sup>

OWYHEE RIVER

Antelope Ridge		5900	3/29	8	4.3	1.2	5.5*
Battle Creek (A)		5700	3/27	3	1.5	0.0	1.8*
#Bear Creek	Nev.	7800	3/30	54	23.4	11.7	20.8
Bull Basin (A)		5600	3/27	0	0.0	0.0	0.5*
#Fox Creek	Nev.	6800	3/30	22	8.7	6.6	10.0*
Hyde Pasture (A)		5800	3/27	3	1.5	0.0	3.0*
Mud Flat		5500	3/29	7	3.5	0.5	4.4
Red Canyon (A)		6650	3/27	14	6.4	2.0	4.6*
#Seventy-six Creek	Nev.	7100	3/30	27	11.2	4.8	11.6*
Silver City		6400	4/4	35	14.3	7.0	15.1
South Mountain		6340	3/31	24	11.0	6.3	12.4
Succor Creek (A)		6100	3/27	11	5.5	3.4	4.6*
Triangle (A)		5150	3/27	0	0.0	0.0	0.2*
Vaught Ranch (A)		5950	3/27	3	1.5	0.0	1.3*
War Eagle (A)		7700	3/27	72	28.8	9.8	22.2*

UPPER SNAKE RIVER BASINCAMAS-BEAVER CREEKS

Blue Ledge Mine		6700	3/29	44	18.1	5.3	17.2
Camp Creek		6800	3/31	23	8.3	2.3	10.4
Kilgore		6200	3/29	31	13.8	3.2	10.9

HENRYS FORK RIVER

Big Springs		6400	3/30	50	22.6	7.7	21.3
Grassy Lake	Wyo.	7230	3/29	98	43.1	18.1	35.0
Island Park		6315	3/30	39	18.2	6.4	16.4
Sawtell Mountain		8720	3/30	90	37.8	13.7	35.3*
Targhee Pass		7000	3/30	37	15.4	6.1	16.2*
Valley View		6500	3/30	35	15.0	6.3	17.7
White Elephant		7700	3/30	68	30.0	10.2	--

TETON RIVER

Darby Canyon	Wyo.	8250	3/29	68	25.8	13.1	--
Freds Mountain	Wyo.	8150	3/29	75	28.5	13.6	--
Garns Mountain		8300	3/29	89	38.2	15.7	--
Indian Meadows	Wyo.	8240	3/29	101	42.3	16.8	--
Jackpine Creek	Wyo.	7350	3/29	64	24.3	10.7	--
McRenolds Reservoir		6800	3/29	57	23.3	10.2	--
Miles Creek	Wyo.	7300	3/29	38	16.2	9.7	--
Phillips Bench	Wyo.	8200	3/30	94	40.7	15.6	--
Pine Creek Pass		6750	3/29	48	19.9	7.4	17.7*
State Line		6650	3/25	38	15.0	7.0	14.9
Teton Pass W.S.	Wyo.	8400	3/30	77	33.2	13.1	--

(b) 1958-72, 15 year period. #Not located directly on this drainage. \* Estimated 1958-72, 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.

**SNOW**

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average <sup>b</sup>

WILLOW CREEK

Aspen Grove	6600	3/30	37	13.5	4.5	11.3*
Birch Creek	6800	3/30	20	7.7	4.0	13.9*
Blue Ridge	6800	3/30	39	17.0	5.3	--
Bone	6200	3/30	15	5.8	1.5	6.8*
Brockman Station	6430	3/30	24	10.5	3.8	--
Hell Creek	7100	3/30	34	14.5	4.8	--
Mud Creek	7150	3/30	42	18.5	5.0	--
Sheep Mountain	6510	3/30	31	12.4	4.6	13.3*
Tex Creek	6700	3/30	23	8.5	3.8	9.2*

SAND CREEK

Henry Creek	5650	3/30	0	0.0	0.3	0.9*
-------------	------	------	---	-----	-----	------

BLACKFOOT RIVER

Austin Bros. Ranch	6400	3/29	10	3.5	0.0	8.8
Slug Creek Divide	7225	3/28	50	21.0	8.4	17.3
Somsen Ranch	7000	3/29	46	18.9	8.1	13.5
Ten Mile Pass	6250	3/29	30	12.9	3.7	--

PORTNEUF RIVER

Dempsey Creek	6280	4/2	32	14.2	5.5	12.4
Lower Pebble	5800	4/2	33	13.9	4.5	12.8*
Mink Creek	6300	4/2	34	14.8	8.7	17.4
Pebble Creek	6550	4/2	36	15.5	5.2	16.7

(b) 1958-72, 15 year period. #Not located directly on this drainage. \* Estimated 1958-72, 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.

## SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average <sup>b</sup>

GREAT BASINBEAR RIVER

Emigrant Summit	7350	3/31	68	29.5	10.1	25.4
Emigration Canyon	6500	3/30	25	10.8	4.8	10.7

Montpelier Creek

Giveout	6840	3/28	45	16.7	4.7	12.5*
Little Beaver	6970	3/28	51	20.8	5.7	16.1*
Lower Home Canyon	7500	3/30	44	18.4	7.9	--
Montpelier Creek	6570	3/28	28	10.6	1.0	8.4*
Upper Home Canyon	8500	3/30	74	30.9	11.7	--
Whiskey Flat	6985	3/28	33	12.5	2.6	9.3*

Mink Creek

Christensen Ranch	5600	3/30	12	5.0	5.1	7.1
Dry Basin	7900	3/30	83	36.9	13.2	30.0*
#Emigrant Summit	7350	3/31	68	29.5	10.1	25.4
Horseshoe Basin	8000	3/30	76	35.4	13.4	28.1*
Liberty Spring	8600	3/30	116	50.4	16.8	40.1*
Strawberry Creek	5800	3/30	17	6.7	4.7	10.0
Strawberry Mink Divide	6800	3/30	59	27.0	9.0	21.5

Cub River

Cub River R. S.	5400	3/30	7	3.2	5.7	6.1
#Franklin Basin	8000	3/30	71	33.1	14.0	28.0
Willow Flat	6100	3/30	34	15.2	6.0	14.4
Worm Creek	6660	3/30	48	22.1	8.3	--

MALAD RIVER

Cliff Canyon	7200	3/30	22	9.5	2.8	--
Daniels Creek	6400	3/30	10	3.2	1.3	--
Dry Creek Flat	6480	3/30	4	1.7	0.0	3.3
Lower Elkhorn	7000	3/30	32	15.5	5.1	13.1*
Oxford Mountain	6800	3/30	18	7.8	3.8	8.9
Upper Elkhorn	7100	3/30	63	25.5	5.9	18.7*

(b) 1958-72, 15 year period. #Not located directly on this drainage. \* Estimated 1958-72, 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.





# Agencies and Organizations Cooperating in Idaho Snow Surveys

## GOVERNMENT AGENCIES

### States:

Idaho Department of Water Resources  
State of Idaho Department of Fish and Game  
University of Idaho  
Idaho State University  
Montana Agricultural Experiment Station  
Montana State Water Conservation Board  
Montana Cooperative Snow Surveys  
Nevada Cooperative Snow Surveys  
Oregon Agricultural Experiment Station  
Oregon Cooperative Snow Surveys  
Oregon State Engineer and Corps of  
State Watermasters  
Utah Cooperative Snow Surveys  
Wyoming Cooperative Snow Surveys

### Federal:

U.S. Army Engineers  
  
U.S. Department of Agriculture  
Forest Service  
Agricultural Research Service  
Statistical Reporting Service  
  
U.S. Department of Commerce  
NOAA, National Weather Service  
  
U.S. Department of the Interior  
Bonneville Power Administration  
Bureau of Reclamation  
Fish and Wildlife Service  
Water Resources Division, Geological Survey  
National Park Service  
Bureau of Land Management

## PUBLIC UTILITIES

The Montana Power Company  
Washington Water Power Company  
Idaho Power Company  
Utah Power and Light Company

## ORGANIZED PUBLIC AGENCIES

Big Lost River Irrigation District  
Blaine Soil Conservation District  
Boise Project Board of Control  
Idaho Water District #01  
Little Wood River Irrigation District  
Mann Creek Irrigation District  
Salmon Falls Creek Irrigation Company  
Twin Falls Soil Conservation District  
Big Wood Irrigation Company  
Owyhee Project - North & South Board of Control  
Valley Soil Conservation District  
Portneuf Soil and Water Conservation District

UNITED STATES DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE

ROOM 345  
304 N. 8TH ST.  
BOISE, IDAHO 83702

OFFICIAL BUSINESS  
PENALTY FOR PRIVATE USE, \$300

POSTAGE AND FEES PAID  
U. S. DEPARTMENT OF  
AGRICULTURE  
AGR-101



**FIRST CLASS MAIL**

## FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Furnishes the basic data  
necessary for forecasting  
water supply for irrigation,  
domestic and municipal water  
supply, hydro-electric power  
generation, navigation,  
mining and industry

*"The Conservation of Water begins  
with the Snow Survey"*

USDA NATIONAL AGRICULTURAL  
LIBRARY  
CURRENT SERIAL RECORD  
BELTSVILLE, MARYLAND 20705